Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

					·-				
Applicant's or agent's file reference			FOR FURTHER A	ACTION	See Form PCT/IPEA/416				
NTK04-1597WO			7 1	. (1. (
International application No. PCT/JP2004/005071			International filing da		Priority date (day/month/year) 15.04.2003				
					15.04.2005				
Internation	International Patent Classification (IPC) or national classification and IPC								
Applicant	Applicate								
Applicant YANAGA, Hiroko									
IMMON, MIIORO									
	 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 								
2. T	his REPORT consis	sts of a total of _	4	sheets, including	g this cover sheet.				
3. T	his report is also ac	companied by Al	NNEXES, comprising:	:					
а	. (sent to the	ne applicant and	to the International Bi	ureau) a total of 2	sheets, as follows:				
					mended and are the basis for this report and/or				
		ets containing rec ructions).	ctifications authorized	by this Authority (see Ru	le 70.16 and Section 607 of the Administrative				
		-	·	-	siders contain an amendment that goes beyond				
	the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.								
t	b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))								
				•	containing a mayance listing and/outables				
	related ther	eto, in computer	readable form only, a	is indicated in the Supple	, containing a sequence listing and/or tables mental Box Relating to Sequence Listing (see				
_	Section 802	of the Administ	rative Instructions).						
4. T	his report contains i	ndications relati	ng to the following iter	ms:					
	Box No. I	Basis of the	report						
	Box No. II	Priority							
	Box No. III	Non-establi:	shment of opinion with	regard to novelty, invent	ive step and industrial applicability				
	Box No. IV Lack of unity of invention								
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	Box No. VI Certain documents cited								
	Box No. VII Certain defects in the international application								
Γ	Box No. VIII Certain observations on the international application								
Date of submission of the demand				Date of completion of thi	is report				
Name and mailing address of the IPEA/JP				Authorized officer					
raus allu i	umining address of th	IN IL DAVI							
Faccimile No.				Telephone No.					

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/005071

Bo	r No. I Ba	asis of the report							
1.	With regard to t indicated under	the language, this report is based on the internation this item.	nal application in the language in	which it was filed, unless otherwise					
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of: international search (Rule 12.3 and 23.1(b)) publication of the international application (Rule 12.4) international preliminary examination (Rule 55.2 and/or 55.3)								
2.	receiving Office this report):	the elements of the international application, this e in response to an invitation under Article 14 are attached attituded att							
	pages* _	6–7	received by this Authority on	02.11.2004					
	pages* _		received by this Authority on						
	the claims	s:							
	nos. 1	L -6		as originally filed/furnished					
	nos.*		as amended (together	with any statement) under Article 19					
	nos.*		received by this Authority on						
	nos.*								
	the drawin	ngs:							
	sheets	1/3-3/3		as originally filed/furnished					
	sheets*		received by this Authority on						
	sheets*		received by this Authority on						
		e listing and/or any related table(s) - see Suppleme	•	cting					
			chiai box Relating to sequence be	sing.					
3.	$^-$	adments have resulted in the cancellation of:							
		description, pages							
	$\overline{}$	claims, nos.		· •					
		.							
		sequence listing (specify):							
		table(s) related to sequence listing (specify):							
4.	they have	ort has been established as if (some of) the amend been considered to go beyond the disclosure as fil	ed, as indicated in the Supplement	tal Box (Rule 70.2(c)).					
	the c	description, pages							
	the o	claims, nos.							
		drawings, sheets/figs							
	the :	sequence listing (specify):							
	any table(s) related to sequence listing (specify):								
<u> </u>	If item 4 applies	s, some or all of those sheets may be marked "supe	erseded."						

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/005071

Box		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; distinus and explanations supporting such statement					
1.	Statement						
	Novelty (N)	Claims	1-6	YES			
		Claims		_ NO			
	Inventive step (IS)		1-6	_ YES			
		Claims		_ NO			
	Industrial appl	icability (IA) Claims	1-6	_ YES			
		Claims		_ NO			

- 2. Citations and explanations (Rule 70.7)
 - Document 1: WO 02/012451 A1 (Hiroko Yanaga), 14 February 2002
 - Document 2: Igaku no Ayumi, 2002, Vol. 200, No. 3, pages 258 to 259
 - Document 3: N Engl J Med, 1994, Vol. 331, No. 14, pages 889 to 895

Claims 1 to 6

The inventions set forth in claims 1 to 6 are novel and involve an inventive step in relation to documents 1 to 3 cited in the international search report.

Document 1 sets forth a method wherein a cartilage fragment is treated with trypsin, treated with type-II collagenase, and subjected to filtration, and the isolated cartilage cells are sown once or twice or more in a layered manner, and co-cultured with feeder cells to obtain human cartilage cell masses; and a cartilage treatment material comprising said cartilage cell masses and an enveloping material such as collagen.

Documents 2 and 3 set forth methods of single-layer cultivating cartilage cells isolated from human joint cartilage.

None of the documents mentioned above indicates that

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2004/005071

Box	No. V	Reason citatio	ned statem ns and exp	ent und lanation	er Article 3 is supporti	5(2) with regard ng such statemer	to novelty, in: it	ventive st	tep or	industrial applica	ability;	
	cartil	age	cell	s ar	e cul	tivated	togethe	er wi	ith	the		
	perich	ond	rium,	and	said	feature	would	not	be	obvious	to	a
	person	sk	illed	in	the a	rt.						
												!